

FILE NOTATIONS

Entered in NID File _____
 Entered On S R Sheet _____
 Location Map Pinned _____
 Card Indexed _____
 IWR for State or Fee Land _____

Checked by Chief _____
 Copy NID to Field Office _____
 Approval Letter _____
 Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 10-28-36 *prior to OGCC*

OW _____ WW _____ TA _____

GW _____ OS _____ NA ✓

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log _____

Electric Logs (No.) _____

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____

Lat _____ Mi-L _____ Sonic _____ Others _____

We got the copy of this log from the State Engineer's Office. (3-29-61)

CDW 8-20-90

43 015 10180
Imot #1
T23S R11E 22

Notations on back of old file folder

Converted to water well October 27, 1936

3

Log of

STANDARD OIL COMPANY OF CALIFORNIA Unit No. 1 - Address: 330 Continental Oil Bldg.
Denver, Colorado.

Field: San Rafael Swell - Emery County, Utah . Sec. 22, T. 23S., R. 11E.
Meridian Salt Lake. Location 660 ft. N. of S. Line and 660 ft. E. of W. Line
of Sec. 22 - - Elevation Est. 6500'.

Date: July 6, 1937

Commenced drilling 8/14/36

Finished drilling 10/28/36

Important water sands

between 2000' and 2285'.

Rotary tools were used from 0 feet to 2285 feet.

Put to producing water, Nov. 12, 1936. The production for the first 24 hours was 1869 bb.

From	To	Feet	Formation
Spudded with rotary, by Loffland Bros. Contractors, 8/14/36, using 5" DP and 11" Reed bit			

0	54	54	Sand and lime shells
	Landed 41' - 20" conductor pipe		
54	123	69	Lime and sand with streaks of shale
123	176	53	Sand, white hard
176	231	55	Sand (hard)
231	333	102	Sand
333	365	32	Sand

Reamed hole from 11" to 18 1/2"

August 17, 1936 - Landed and cemented 16" casing at 295' with 200 sacks
cement (brand and type cement not reported)

Casing detail: all 16" - 70# - 8 thread - Grade "C" (1)
Youngstown.

Cemented around surface of 16" casing with 20 sacks cement.
16" casing stood cemented 5 days. (Location of casing shoe and amount of cement
in casing not reported)

365	400	35	Sand
400	517	117	White sand
517	550	33	White sand and white lime
550	702	152	White sand and lime shells
702	785	83	Sand and lime
785	855	70	Sand lime shells
855	965	110	Sand - lime shells

Lost circulation at 965'.

965	992	27	Sand
992	1025	33	Lime with streaks of sand
1025	1035	10	Lime and sand.

Put in 10 sacks cement. 1 bag aquagel and 12 sacks oats at 965'.
Pumped hole full of mud. Let stand 6 hours. Regained circulation for short
period only.

1035	1079	44	Sandy lime
1079	1081	2	Sand

Lost circulation at 1081'. Pumped in 6 sacks oats. 8 sacks cement and
12 sacks aquagel. No circulation - water shortage. Pumped in 75 sacks aquagel,
10 yards clay and 10 bags oats.

1081	1086	5	Lime
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Lost circulation, pumped 33 bags sawdust, 20 sacks aquagel, 8 sacks oats
and 6 sacks cement. Out of water.

Mixed and pumped in hole 29 sacks aquagel, 4 yards clay but did not
fill hole. Then added 8 sacks oats and 7 sacks cement.

1086	1116	30	Sandy lime
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POOR COPY

Mixed and pumped in hole 4 1/2 yards clay and 46 sacks aquagel.
Drilled 3/4 hour without returns; out of water 56 hours.

1116 1120 4 Lime

Pumped in 50 sacks cement (no details as to method, cement or slurry)

Added to mud pit and mixed 65 bags aquagel, 50 bags sawdust and 8 1/2 yards clay. Drilled 1/4 hour and lost circulation. Location of cement plug not reported.

1120 1147 27 Sand and lime
1147 1199 32 Lime - sand

Lost circulation. Pumped in through 5" DP 20 sacks cement and 6 sacks oats (no detail regarding cement or slurry used nor location of plug)

1199 1224 25 Lime and sand
1224 1227 3 Soft sand
1227 1245 18 Lime and sand
1245 1291 46 Lime
1291

Lost circulation, pumped in through 5" DP 40 sacks cement and 5 sacks of oats. No further details.

1291 1327 36 Pink and grey lime - streaks hard sand
1327 1357 30 Lime (grey and pink)

Lost circulation at 1327'. Pumped in 5 sacks oats and then 50 sacks cement. No further details reported.

1357 1392 35 Pink and gray lime
1392 1437 45 Pink, brown and gray lime
1437 1473 36 Pink and gray lime
1473 1525 52 Brown, gray and white lime
1525 1581 56 Sandy lime, pink and gray
1581 1612 31 Lime (hard)
1612 1664 52 Brown and gray lime
1664 1716 52 Brown and gray lime
1716 1740 24 Brown lime
1740 1845 105 • Gray lime
1845 1926 81 Lime
1926 1977 51 Gray lime
1977 2010 33 Soft gray lime
2010 2076 66 Gray lime with hard marble-like streaks
2076 2084 8 Gray lime with white streaks
2084 2095 11 Sharp gray and white lime
2095 2113 18 Sharp white gray lime
2113 2131 18 Gray and white lime
2131 2189 58 Gray lime

September 16 - Lost circulation 2189'. Pumped in through 5" DP 35 sacks cement and 8 sacks oats. No further details reported. No circulation - plug not reported.

September 17 - Pumped in through 5" DP 40 sacks cement. No other details reported. Stood cemented 14 hours. Located cement at 2095. Drilled to 2184' and lost circulation. Pumped in 35 sacks aquagel, 10 yards clay, 7 bags sawdust and 1800 lbs. alfalfa.

September 18 - Pumped in through 5" DP hanging at 2150' with blowout preventor closed, 60 sacks cement. No further details. Stood 10 hours. Drilled out cement and lost circulation. Top of cement not reported.

2189 2285 96 No log. (drilled without circulation)

September 20 - Pumped in through 5" DP hanging at 2250' 90 sacks cement. No further details reported. Stood 40 hours. Ran in DP to about 1850'. No circulation. Lowered DP to within one joint of bottom without touching cement plug.

September 21 - Dumped in top of hole 70 sacks cement and 30 sacks oats then pumped in mud. Located fluid at 2000'. Mixed and pumped into hole 16 hard

clay, 50 bags sawdust, 2000 pounds alfalfa and 40 bags aquagel.

September 22 - Dumped in top of hole 250 sacks cement and 10 sacks oats. Closed blowout preventor and pumped in pit of mud. Lo oiled fluid at 1820'.

Stood about 60 hours. Located cement at 2235'. Cleaned out to bottom. (assume no circulation)

Mixed 260 sacks cement, 10,000 pounds oats and 7 trucks of surface soil and dumped same into top of hole. Filled hole to 300'. Mixed 40 bags sawdust, 40 bags alfalfa and 38 bags aquagel.

Found bridges from 900' to bottom and lost circulation at 2165'. Fluid standing at 1780'.

September 27 - Mixed and put in at top of hole 225 sacks cement and 60 sacks oats. Started in hole and stuck DP at 940'. Loosened DP with oil in about 20 hours.

September 29 - Went in hole with DP, found several bridges from 1100' to bottom. Lost circulation at 2135'. Stuck DP at 2284'. 11 1/3 days fishing and washing over DP. Recovered.

October 11 - Cemented hole with 300 sacks cement, 25 sacks aquagel and 500 gunny sacks followed by cement plug and mud. No further details. Fluid level 1660'.

October 12 - Unable to fill hole above 1760'. Cemented hole with 300 sacks cement, 25 sacks aquagel and 300 paper sacks followed with wooden plug. Plug stopped at 980' but mud passed by. No details as to methods cement or mixture reported.

Estimate well stood about 12 hours then cleaned out to 2205' and lost circulation.

October 13 - Cemented with 270 sacks cement, 30 sacks aquagel and 30 sacks ground alfalfa. Fluid level before cementing 1820', after cementing 2225'. A few hours (probably about 8) fluid level reported at 1675'. No further details on cement job reported.

Estimate stood cemented about 12 hours. Bridge reported 2195' (probably top of cement) Cleaned out to 2210'.

October 14 - Cemented with 290 sacks cement, 40 sacks ground alfalfa, 25 sacks aquagel and paper sacks followed by a plug and mud. Plug stopped at 1020'. Unable to fill hole with mud. Went in with DP. Knocked plug out of way. Regained and retained circulation to 2205' then lost returns.

Stood cemented 8 hours. Fluid level 1638'.

October 14 - Dumped in top of hole 357 sacks cement, 20 sacks alfalfa and 25 sacks aquagel followed by cement plug which was pumped to 2060'. Fluid level after cementing - 1085'.

Filled hole with 12 yards of native clay and 15 bags aquagel.

Stood cemented 8 hours. Drill pipe stopped at 2195' (probably top of cement). Drilled to 2213' and lost circulation.

October 17 - Dumped into top of the hole 406 sacks cement, 25 sacks aquagel, and 10 sacks alfalfa and 300 paper bags followed by cement plug and mud. Plug stopped at 1670'. Estimate stood cemented about 8 hours. Drill pipe stopped at 2010' - top of cement bridge. Lost circulation at 2200'. Fluid standing at 1670'.

October 18 - Dumped in hole 250 sacks "Utah Portland" and "Red Devil" cement and 20 bags aquagel followed by cement plug which was pumped to 2030'. Pumped mud in hole but fluid would not raise above 1680'.

While waiting on cement mixed up mud and spent several hours dropping 1 1/2" rocks into hole.

October 22 - Found hole bridged to 2174'. Drilled on bridge from 2174' to 2204'. Lost circulation. Dumped in at surface 500 sacks "Utah Portland" cement, 75 bags aquagel and 60 sacks sandust followed by cement plug which stopped at 2088'. Fluid level - 1563'. Unable to raise fluid level above 1625' by continued pumping of mud into hole.

Bridged hole with 1 1/2" rocks from 2204' to 2198'. Cleaned out from 2198' to 2285' (bottom). Fluid level - 1300'. Pumped in pit of mud and fluid dropped to 1666'.

October 26 - Shot hole 2150'-2210' with 550 pounds nitrocel. Fluid level after shooting - 1505'. Cleaned out from 2204' to 2240'.

Pumped in through DP hanging at 2200', 150 sacks cement and 10 bags of aquagel. No further details reported. Fluid level after cementing 1273'. Top of cement plug 2200'.

October 27 - Decided to convert hole into a water well. After several hours bailing unable to lower water below 1731'.

Cleaned out hole to 2270'. Then laid down DP.

November 10 - Landed 4 3/4" casing at 2139' with 12' x 3 3/4" ID working barrel on bottom.

Casing detail - All 4 3/4" - 16# - 10' thread Grade C Seamless Youngstown.

Put in 7/8" rods and set up a Lacey Pumping Unit powered by an electric motor.

Started pump at 4 p.m. November 12, 1936. Well produced at the following rate:

Date	Ebl.	Hrs. Produced	S.P.M.	Stroke	Remarks
November 12, 1936	1171	15	21	60"	Tried higher S.P.M. but rods would not fall
November 13, 1936	1860	24	21	60"	
November 14, 1936	1860	24	21	66"	
November 15, 1936	1717	22	20	66"	2 hrs. repair lines
November 16, 1936	1579	21 1/2	20-21	66"	2 1/2 hrs. repair sling
November 17, 1936	1790	24	20-21	66"	
November 18, 1936	1605	23	20-21	66"	1 hr. jetting cellar
November 19, 1936	1756	24	20-21	66"	
November 20, 1936	1671	22	20-21	66"	Fluid level 1710'

Drillers:

John Rundle
L. G. Rohden
A. J. Whelan

SUMMARY

Depth - 2285'

Plugs - none. Cleaned out to 2270'.

Junk - none

Casing records:

20" conductor pipe landed at 41'

16" Cemented at 285'. Not tested.

4 3/4" Landed at 2139' (12' x 3 3/4" ID working barrel on bottom)

7/6/37

R. D. Copley

Copied by mtr